

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

97-019

INSTRUCTIONS

1. The preparing activity must complete blocks 1,2, 3, and 8. In block 1, both the document number and revision letter should be given.
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| I RECOMMEND A CHANGE: | 1. DOCUMENT NUMBER | 2. DOCUMENT DATE (YYMMDD) |
| | | 950415 |
| 3. DOCUMENT TITLE Support Data Extensions (SDE) (Version 1.1) for the National Imagery Transmission Format (Version 2.0) for the National Imagery Transmission Format Standard (NITFS) | | |
| 4. NATURE OF CHANGE <i>(Identify paragraph number and include proposed rewrite, if possible. Attach extra sheets as needed.)</i> Establishes a revised Standard ID "C" tag by adding new paragraphs 5.2.3 and 5.2.4, and tables 6d, 6e, and 6f to describe the STDIDC format. A one byte field is added for BWC and TYPE_OF_IMAGERY. The START_ROW and END_ROW fields are each reduced by one byte. The START_COLUMN and the END_COLUMN field sizes have been increased by one byte. The YEAR and CREATE_DATE fields have been increased by two bytes each, to reflect millennium 2000 dates. This extends the overall length of the CEDATA sub header field from 69 to 75 bytes. | | |
| 5. REASON FOR RECOMMENDATION Due to the need for the Standard ID to describe the type of bandwidth compression used and indicate if the imagery is for test or production, a new (C) version of the STDID tag is required. Additionally, this revised tag is consistent with the latest mod to NTB RFC 97-012, which describes SDE's for airborne sensors. It is also consistent with mod R2987 to IMCCB RFC P01-195J. | | |
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The following paragraphs and tables need to be added to the reference document. For tables 6e and 6f, only the portions that change from existing tables 6b and 6c are presented - so that this RFC can be UNCLASSIFIED.

5.2.5 STDIDC format. The standard ID tag is intended to be the most basic support data extension. As extensions are removed to reduce the classification level, the STDID tag is expected to be at the lowest classification level. It is a prerequisite for other tags. The first 26 characters of this tag are identical to the 24 character image ID used in some systems. The two character difference is reflected in the YEAR field. The year field in this tag is represented by a four character value. The first 44 characters are similar to the 40 character image ID(which includes corner block identifiers) used in some systems. The four character difference is reflected in the YEAR field(two additional characters), the START_COLUMN field (one additional character) and the END_COLUMN field (one additional character). The START_COLUMN and END_COLUMN are represented by three character values.

The tagged record files for the STDIDC tag are specified in Tables 6d, 6e, and 6f.

Table 6d. STDIDC tagged record sub header fields

| FIELD | NAME | SIZE | VALUE RANGE | TYPE |
|--------|-----------------------------|-----------|---------------------|------|
| CETAG | Unique Extension Identifier | 6 | STDIDC | R |
| CEL | Length of CEDATA field | 5 | 00075 | R |
| CEDATA | User-defined data | 75 | See Table 6e | R |

5.2.6 STDIDC User Defined field format. The format for the User Defined field of the STDIDC is detailed in Table 6e, and the descriptions of these fields is detailed in Table 6f.

Table 6e. STDIDC User Defined field format

| FIELD | NAME | SIZE | VALUE RANGE | TYPE |
|---|-------------------------------------|----------|---|----------|
| (previous rows of data are the same as table 6b) | | | | |
| YEAR | Year of image acquisition | 4 | 0000 to 9999 | R |
| (rows of data between these fields are the same as in table 6b) | | | | |
| START_COLUMN | Start Column Block- (Cross Scan) | 3 | 001 to 999 | R |
| BWC | Bandwidth Compression Option | 1 | 0 to 9 | R |
| START_ROW | Start Row Block - (Along Scan) | 4 | 0001 to 9999 | R |
| END_SEGMENT | Ending Segment ID of this file | 2 | (same as in table 6b) | R |
| END_COLUMN | Ending Column Block-(Cross Scan) | 3 | 001 to 999 | R |
| TYPE_OF_IMAGERY | Type of Imagery | 1 | 0 or 1 | R |
| END_ROW | Ending Row Block-(Along Scan) | 4 | 0001 to 9999 | R |
| (rows of data between these fields are the same as in table 6b) | | | | |
| CREATE_DATE | Date of NITF file creation | 9 | 01 to 31, JAN to DEC, 0000 to 9999 | R |
| (the remaining rows of data are the same as table 6b) | | | | |

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Table 6f. STDIDC User Defined field definitions

| FIELD | VALUE DEFINITIONS AND CONSTRAINTS |
|---|---|
| (previous rows of data are the same as table 6c) | |
| BWC | Bandwidth Compression Flag: 0 = 1.29 DCT 1 = 2.3 DCT 2 = 4.3 DPCM 3 = JPEG lossy DCT (Quality Level 0) near original 4 = JPEG lossy DCT (Quality Level 1) medium 5 = JPEG lossy DCT (Quality Level 2) highest 6 = JPEG lossless 7 = NITF uncompressed 8 to 9 = spare |
| START_ROW | (same definition as in table 6c) |
| END_SEGMENT | (same definition as in table 6c) |
| END_COLUMN | (same definition as in table 6c) |
| TYPE_OF_IMAGERY | Type of imagery: 0 = Production imagery 1 = Test imagery |
| (rows of data between these fields are the same as in table 6c) | |
| CREATE_DATE | Date of NITF file creation. Format is DDMMMYYYY where DD is Day, MMM is Month, YYYY is the year. |
| (remaining rows of data are the same as table 6c) | |

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